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EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER

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 μ (W) ≤ 0.2

APPLICATION DATE

26-11-97

APPLICATION NUMBER

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APPLICANT: TOYOBO CO LTD;

INVENTOR: ISODA HIDEO;

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D04H 1/42 // D04H 1/04

TITLE

POLYESTER STAPLE FOR WET TYPE

NONWOVEN FABRIC HAVING LATENT

CRIMPING DEVELOPMENT AND ITS

PRODUCTION

 μ (W) $/\mu$ (D) ≤ 0 .

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ABSTRACT: PROBLEM TO BE SOLVED: To obtain the subject staple for providing elastic nonwoven fabric having latent crimping development, light weight and excellent elongation recovery, by spinning a specific polyester A and a prescribed polyester B under specified conditions.

> SOLUTION: This staple comprises a side by side type or an eccentric core-sheath type fiber comprising a polyester A composed of a polypropylene terephthalate as a main component and a polyester B composed of a polyethylene terephthalate as a main component and is obtained by melting the components so as to make the ratio of the polyester A to the polyester B of 30/70 to 70/30 by weight at a temperature 10-30°C higher than the melting point of each component, subjecting the polymers to the melt conjugate spinning in a side by side type or eccentric sheath core type, heat-treating the varn in tension at 100-190°C treatment temperature in a drawing process, providing the yam with an finishing oil, cutting the yarn into 2-100 mm length to give the a polyester staple for wet type nonwoven fabric satisfying equations 1 and II [µ (W) is a friction coefficient between fibers in wetness; μ (D) a friction coefficient between fibers in dryness).

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